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1 Holographic data storage

J. Ashley, M.-P. Bernal, G. W. Burr, H. Coufal, H. Guenther, J. A. Hoffnagle, C. M. Jefferson, B. Marcus, R. M. Macfarlane, R. M. Shelby, G. T. Sincerbox

May 2000 IBM Journal of Research and Development, Volume 44 Issue 3

Publisher: IBM Corp.

Bibliometrics: Downloads (6 Weeks): n/a. Downloads (12 Months): n/a. Downloads (Overall): n/a. Citation Count: 1

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We present an overview of our research effort on volume holographic digital data storage. Innovations, developments, and new insights gained in the design and operation of working storage platforms, novel optical components and techniques, data coding ...

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² VIZARD II: a reconfigurable interactive volume rendering system

M. Meißner, U. Kanus, G. Wetekamp, J. Hirsche, A. Ehlert, W. Straßer, M. Doggett, P. Fortmann, R. Proksa


September 2002 **HWWS '02:** Proceedings of the ACM SIGGRAPH/EUROGRAPHICS conference on Graphics hardware

Publisher: Eurographics Association

Full text available:  Pdf (767.44 KB)

Bibliometrics: Downloads (6 Weeks): 7. Downloads (12 Months): 29. Downloads (Overall): 405. Citation Count: 5

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This paper presents a reconfigurable, hardware accelerated, volume rendering system for high quality perspective ray casting. The volume rendering accelerator performs ray casting by calculating the path of the ray through the volume using a programmable ...

Found 6 of 1,742,012

3 [Image Space Based Visualization of Unsteady Flow on Surfaces](#)

[Robert S. Larance](#), [Bruno Jobard](#), [Helwig Hauser](#)

October 2003

VIS '03: Proceedings of the 14th IEEE Visualization 2003 (VIS'03)

Publisher: IEEE Computer Society


Full text available:  [Pdf](#) (684.91 KB)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 15, Downloads (Overall): 282, Citation Count: 11

We present a novel technique for direct visualization of unsteady flow on surfaces from computational fluid dynamics. The method generates dense representations of time-dependent vector fields with high spatio-temporal correlation using both Lagrangian-Eulerian ...

Keywords: Unsteady flow visualization, computational fluid dynamics (CFD), surface representation, texture mapping

4 [Data clustering: a review](#)

 [A. K. Jain](#), [M. N. Murty](#), [P. J. Flynn](#)

September 1999

Computing Surveys (CSUR), Volume 31 Issue 3

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (636.24 KB)

Bibliometrics: Downloads (6 Weeks): 175, Downloads (12 Months): 3048, Downloads (Overall): 32415, Citation Count: 1079

Clustering is the unsupervised classification of patterns (observations, data items, or feature vectors) into groups (clusters). The clustering problem has been addressed in many contexts and by researchers in many disciplines; this reflects its broad ...

Keywords: cluster analysis, clustering applications, exploratory data analysis, incremental clustering, similarity indices, unsupervised learning

5 [High-Performance Wide-Area Optical Tracking: The HiBall Tracking System](#)

[Greg Welch](#), [Gary Bishop](#), [Leandra Vicci](#), [Stephen Brumback](#), [Kurtis Keller](#), [D'ardo Colucci](#)

February 2001

Presence: Teleoperators and Virtual Environments, Volume 10 Issue 1

Publisher: MIT Press

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 15

Since the early 1980s, the Tracker Project at the University of North Carolina at Chapel Hill has been working on wide-area head tracking for virtual and augmented environments. Our long-term goal has been to achieve the high performance required for ...

6 [An Implementation of Key-Based Digital Signal Steganography](#)

[Toby Sharp](#)

April 2001 **IIIW '01**: Proceedings of the 4th International Workshop on Information Hiding

Publisher: Springer-Verlag

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 21

A real-life requirement motivated this case study of secure covert communication. An independently researched process is described in detail with an emphasis on implementation issues regarding digital images. A scheme using stego keys to create pseudo-random ...

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